

# **Lean Implementation to Reduce Process Waste : A Case Study**

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## **Abstract**

Lean manufacturing focuses on the concept of minimizing waste to maximize product value. Every line of business must have a goal to be able to produce good quality products in large quantities, but at the lowest possible cost. Magetan Regency, East Java is one of the most developed leather craft centers on the island of Java. UD. Praktis a center for leather shoes and sandals craftsmen who are able to produce 25-30 pairs of shoes every day. Based on the observations that have been made, the layout of the production room is inadequate so it looks quite messy. This resulted in the activity of waiting and moving raw materials and semi-finished materials. This activity is included in the category of waste. Initial identification uses Value Stream Mapping (VSM) which shows 32 minutes of non-value added activities. Furthermore, the potential causes are identified and sorted using a Pareto diagram. It is known that an inadequate layout has the highest frequency. Therefore, it is proposed to improve the layout of the facility in order to reduce the duration of production and activities that are non-value added.

## **Keywords**

*Lean Manufacturing, Value Stream Mapping, Waste, Layout, IEBOK*

## **Biographies**

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